

# Converting Colors

$Y_{xy}(58.0589, 0.2430, 0.3415)$

Have a look what the booklet for  
Yxy(58.0589, 0.2430, 0.3415)  
contains.

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# Color

**Yxy(57.8680, 0.2427, 0.3410)**

# Conversions

## Conversions Part 1

Format	Color
Hex	56DCD3
RGB	86, 220, 211
RGB Percent	34%, 86%, 83%
CMY	0.6630, 0.1372, 0.1724
CMYK	0.61, 0.00, 0.04, 0.14
HSL	176°, 66%, 60%
HSV	176°, 61%, 86%
XYZ	41.1864, 57.8680, 70.6465
YIQ	178.9080, -76.9750, -31.2070

# Conversions

## Conversions Part 2

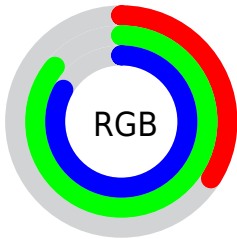
<b>Format</b>	<b>Color</b>
<b>RYB</b>	86, 155, 220
Decimal	5692627
CIELab	80.67, -38.30, -6.48
CIELCh	81, 38.842, 189.602
Yxy	57.8680, 0.2427, 0.3410
Android (android.graphics.Color)	4283882707 (0xFF56DCD3)
YUV	178.9080, 15.8214, -81.4803
Hunter-Lab	76.0710, -36.4807, -1.8124

# Details

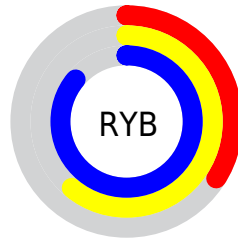
The Yxy color **57.8680, 0.2427, 0.3410** is a light color, and the websafe version is hex **33CCCC**. The color can be described as light muted cyan. A complement of this color would be **22.6853, 0.4921, 0.3198**, and the grayscale version is **44.9644, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.1296, 0.2557, 0.3288**, and **28.9852, 0.2283, 0.3417** is the 20% darker color. If you saturate the color by 10%, you get **56.9092, 0.2369, 0.3433**, and if you desaturate by 10%, it is **59.1531, 0.2504, 0.3388**.

# Distribution



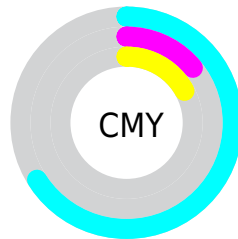
- Red (34%)
- Green (86%)
- Blue (83%)



- Red (34%)
- Yellow (61%)
- Blue (86%)



- Cyan (61%)
- Magenta (0%)
- Yellow (4%)
- Black (14%)




- Cyan (66%)
- Magenta (14%)
- Yellow (17%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 57.8680, 0.2427, 0.3410 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 57.8680, 0.2427, 0.3410 by changing the saturation by 10% instead.





 57.8680, 0.2427,  
0.3410


 57.8680, 0.2427,  
0.3410


416.6939, 0.2758,  
0.3359


 41.7025, 0.2350,  
0.3420


 101.7306, 0.2543,  
0.3393


 28.8684, 0.2254,  
0.3432


 130.1966, 0.2588,  
0.3387

 18.9813, 0.2132,  
0.3445


 163.5314, 0.2626,  
0.3381

 11.6568, 0.1972,  
0.3460

 202.1197, 0.2660,  
0.3375

 6.5104, 0.1752,  
0.3475

246.3456, 0.2689,  
0.3371

 3.1579, 0.1439,  
0.3481

296.5937, 0.2715,

 1.2147, 0.0556,

0.3366

353.2484, 0.2738,  
0.3363

0.3608

0.0737, 0.0000,  
0.1214

0.0000, 0.0000,  
0.0000

57.8680, 0.2427,  
0.3410

57.8680, 0.2427,  
0.3410

56.9092, 0.2369,  
0.3433

59.1531, 0.2504,  
0.3388

56.2395, 0.2331,  
0.3455


60.7846, 0.2599,  
0.3366


55.8245, 0.2311,  
0.3478


62.7886, 0.2710,  
0.3346

55.6118, 0.2305,  
0.3498


65.1869, 0.2834,  
0.3326

 67.9998, 0.2970,  
0.3308

 71.2458, 0.3113,  
0.3291

 74.9427, 0.3262,  
0.3277

 77.7682, 0.3362,  
0.3263

 77.8480, 0.3351,  
0.3248

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



57.8680, 0.2814, 0.3896



57.8680, 0.2427, 0.3410



57.8680, 0.2229, 0.2933

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



57.8680, 0.2427, 0.3410



57.8680, 0.2885, 0.2553



57.8680, 0.4077, 0.3897

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



57.8680, 0.2427, 0.3410



22.6853, 0.4921, 0.3198

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



57.8680, 0.4117, 0.3518



57.8680, 0.2427, 0.3410



57.8680, 0.3396, 0.2779

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



57.8680, 0.2427, 0.3410



57.8680, 0.2476, 0.2487



57.8680, 0.3862, 0.3121



57.8680, 0.3772, 0.4159



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



57.8680, 0.2427, 0.3410



57.8680, 0.2217, 0.2696



57.8680, 0.3862, 0.3121



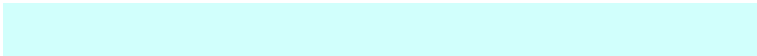
57.8680, 0.4124, 0.3778

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



57.8702, 0.2427, 0.3410



92.1136, 0.2871, 0.3321



54.4081, 0.3091, 0.5221



19.4829, 0.2833, 0.3326



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



57.8702, 0.2427, 0.3410



79.2229, 0.2357, 0.3439



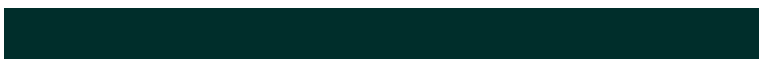
33.7441, 0.2203, 0.2473



14.8137, 0.2991, 0.3305



32.6420, 0.2304, 0.3494



2.1193, 0.2294, 0.3458



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



22.6853, 0.4921, 0.3198



26.0966, 0.5506, 0.3203



35.1724, 0.4566, 0.3933



13.0656, 0.3281, 0.3275



8.9555, 0.6325, 0.3258



0.5853, 0.6106, 0.3137



# Previews

## White Background



This preview shows how the Yxy color 57.8680, 0.2427, 0.3410 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

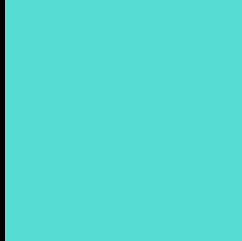
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 57.8680, 0.2427, 0.3410 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

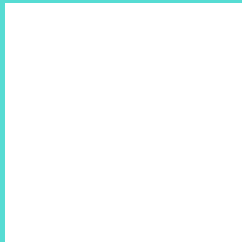
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 57.8680, 0.2427, 0.3410**

## **Background**



This preview shows how black text looks on a background with the Yxy color 57.8680, 0.2427, 0.3410.

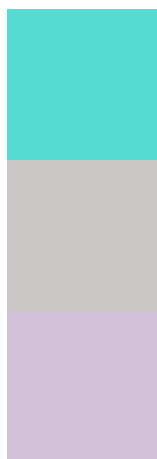


This preview shows how white text looks on a background with the Yxy color 57.8680, 0.2427, 0.3410.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

57.8680, 0.2427, 0.3410

### Protanopia

57.0219, 0.3159, 0.3290

### Deuteranopia

56.8513, 0.3085, 0.3015



## Tritanopia

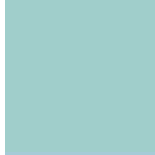
58.0530, 0.2351, 0.3068

# Trichromacy



## Original Color

57.8680, 0.2427, 0.3410



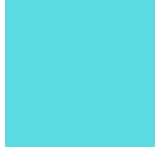
## Protanomaly

55.9280, 0.2817, 0.3328



## Deuteranomaly

55.6175, 0.2773, 0.3139



## Tritanomaly

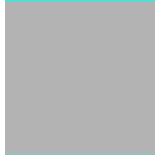
57.9091, 0.2375, 0.3182

# Monochromacy



## Original Color

57.8680, 0.2427, 0.3410



## Achromatopsia

45.0786, 0.3127, 0.3290



## Achromatomaly

48.3649, 0.2780, 0.3330

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 57.8680, 0.2427, 0.3410 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(86, 220, 211)` looks like.

```
.text, #text, p{  
    color:rgb(86, 220, 211)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(86, 220, 211) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(86, 220, 211) }
```

## Border

The CSS property to change the border of an element to Yxy 57.8680, 0.2427, 0.3410 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(86, 220, 211) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(86, 220, 211) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(86, 220, 211)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(86, 220, 211); -webkit-box-  
shadow:4px 4px 4px 4px rgb(86, 220, 211);  
box-shadow:4px 4px 4px 4px rgb(86, 220,  
211) }
```



# Background

The CSS property to change the background color of an element to Yxy 57.8680, 0.2427, 0.3410 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(86, 220, 211) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(86, 220,  
211) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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